

Work Order ID 66111

February 7, 2011 8:22:05 AM

Page 1

Item ID: D3943-041

Accept

Setup Start

Revision ID:

Stop

Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11 Start Qty: 2.00

Required Date: 2/25/11 Req'd Qty: 2.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: CLDate: 11/02/07

Tooling:

Date:

QC: e

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D3943

C

100

0.00



Purchasing

Memo

0.00

Purchasing

Issue P/O: 13422

Purchase Part Number: 8143919

Supplier: Princess Auto

Certificate of conformity is required

Description: 4000 lbs lever chain hoist

CL 11/02/07 (2)

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure material certification is attached

PO 4/2/8 (2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 66111

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Page 2

Item ID: D3943-041

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Setup Start



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Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11 Start Qty: 2.00



Cust Item ID:

Required Date: 2/25/11 Req'd Qty: 2.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

8/1/02/10

(X2)

130

0.00



Large Fab

Memo

0.00

Large Fab

1-Disassemble chain host as per dwg

2-Drill handle ass'y (D3943-051) as per dwg

EL 11-5-23 (X2)

Work Order ID 66111

February 7, 2011 8:22:05 AM



Page 3

Item ID: D3943-041

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Setup Start



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Stop



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Start Date: 2/07/11 Start Qty: 2.00



Cust Item ID:

Required Date: 2/25/11 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

160



Powdercoat

Powder Coating

Hybrid safety Yellow 4.3.5.12

0.00

Memo

0.00

1- POWDER COAT:

Start Time: _____

Oven Temperature: _____

Finish Time: _____

170



QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

N/A. on other w/o.

Work Order ID 66111

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Page 4

Item ID: D3943-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11 Start Qty: 2.00



Cust Item ID:

Required Date: 2/25/11 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

180

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

EL 115-25 (X2)

190

0.00



Large Fab

Memo

0.00

Large Fab

1-Assemble as per dwg
(assy landyard CBL-1240 to CBL-460)
2- touch up with paint if necessary

EL 115-26 (X2)

200

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

1-Calibrate and tag as per dwg

8/15/26

(+2)

CALIBRATION

ID D3943-041
BY S DATE 11/5/24
DUE Per set to 3520-3700 lbs

CALIBRATION

ID D3943-041
BY S DATE 11/5/24
DUE Per set to 3520-3700 lbs

Work Order ID 66111

February 7, 2011 8:22:05 AM



Page 5

Item ID: D3943-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11 Start Qty: 2.00



Cust Item ID:

Required Date: 2/25/11 Req'd Qty: 2.00

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start



QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

210



Packaging

Identify as per dwg & Stock Location: _____

0.00

Memo

PPP65786 1/4 0.00

Packaging

PPP6 9910 1/4

220



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

MF
11-05-27

Picklist Print

Page 1

February 7, 2011 8:22:04 AM

Work Order ID: 66111

Parent Item: D3943-041

Parent Item Name: Ground Handling Crank Assembly



Start Date: 2/07/11

Required Date: 2/25/11

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:A New Issue 09-06-02 EC Verified By: JLM IPP RevB:
add DEO DD 09.11.18 verified by:JLM IPP Rev:C as per dwg
REV.C DD 10.02.22 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

8143919 Lever Chain Hoist		Purchased	No			110	Each	5.0000	1	2			
----------------------------------	--	-----------	----	--	--	-----	------	--------	---	---	--	--	--

Location Loc Qty Loc Code

MAT 5
63727 5

D3943-051 Handle Assembly		Manufactured	No			180	Each	0.0000	1	2			
----------------------------------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

69878 x2

D3943-053 Chain Assembly		Manufactured	No			180	Each	0.0000	1	2			
---------------------------------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

69053 x2

D3943-3 Handle Extension		Manufactured	No			180	Each	8.0000	1	2			
---------------------------------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

Location Loc Qty Loc Code

ST098 2
52978 2
ST139C 6
63739 6

CL 11/03/12 x2

EL 11-5-25

EL 11-5-25

EL 11-5-25

2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

February 7, 2011 8:22:04 AM

Work Order ID: 66111

Parent Item: D3943-041

Parent Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11

Required Date: 2/25/11

Start Qty: 2.00

Required Qty: 2.00

CBL-1240

Purchased

No

180

f

545.3134

1

2



Cable



ES 11/05/24

Location

Loc Qty

Loc Code

ST275

245.3133707

113565

245.313371

2

ST284

300

116438

300

CBL-460

Purchased

No

180

Each

92.0000

2

4



Loop Sleeve



ES 11/05/24

Location

Loc Qty

Loc Code

ST283

92

116438

92

M 116953 (42)

D3585-1

Manufactured

No

180

Each

99.0000

1

2



Set Screw



EL 11-5-25

Location

Loc Qty

Loc Code

ST072

99

55705

99

2

D3949-041

Manufactured

No

180

Each

32.0000

1

2



Remove before Flight Flag Assembly



ES 11/05/24

Location

Loc Qty

Loc Code

ST487

32

48280

32

2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 3

February 7, 2011 8:22:04 AM

Work Order ID: 66111

Parent Item: D3943-041

Parent Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11

Required Date: 2/25/11

Start Qty: 2.00

Required Qty: 2.00

D3954-7

Manufactured

No

180

Each

7.0000

1

2



Ratchet Lug



EL 11-5-23

Location

Loc Qty

Loc Code

ST102

7

55710

1

63738

6

2

AN5-11A

Purchased

No

180

Each

59.0000

1

2



Bolt



EL 11-5-23

Location

Loc Qty

Loc Code

ST

17

115374

17

ST337

25

116419

25

ST338

17

115422

17

AN960-516

NAS1149F0563P

Purchased

No

180

Each

86.0000

1

2



WASHER



EL 11-5-23

Location

Loc Qty

Loc Code

ST346

86

110098

86

2

M117313 X2

February 7, 2011 8:22:04 AM

Shop Packet Print

Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

February 7, 2011 8:22:04 AM

Page 4

Work Order ID: 66111

Parent Item: D3943-041

Parent Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11

Required Date: 2/25/11

Start Qty: 2.00

Required Qty: 2.00

MS21042L5

Purchased

No

180

Each

1,156.000

1

2



Nut



EL H-5-23

Location

Loc Qty

Loc Code

ST139

26

114813

26

ST300

1130

115594

434

116105

496

116548

200

2

S1475

Purchased

No

180

Each

25.0000

1

2



inventory



EL 11-5-23

Location

Loc Qty

Loc Code

ST396

25

113079

11

113847

14

2

3408A59

Purchased

No

180

Each

23.0000

1

2



BALL PLUNGER



EL 11-5-23

Location

Loc Qty

Loc Code

ST401

23

111948

2

113854

21

2

HX-15

Purchased

No

180

Each

50.0000

1

2



1/4-20 UNCx3/4 S.H.C.S.



EL 11-5-23

Location

Loc Qty

Loc Code

ST390

50

114383

50

2

February 7, 2011 8:22:05 AM

Shop Packet Print

Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 5

February 7, 2011 8:22:05 AM

Work Order ID: 66111

Parent Item: D3943-041

Parent Item Name: Ground Handling Crank Assembly

Start Date: 2/07/11

Required Date: 2/25/11

Start Qty: 2.00

Required Qty: 2.00

HX-16

Purchased

No

180

Each

100.0000

3

6



EL11-5-23

Location

Loc Qty

Loc Code

ST390

100

113771

100

2

D4405-1 at 30365T35
from the master CL11/05/25

M 116125 X1

B 69917 X1

EL 11-5-26

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

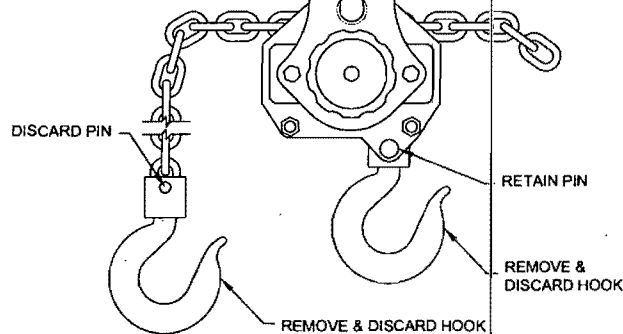
ITEM No.	QTY -041	QTY -051	QTY -053	PART NUMBER	DESCRIPTION	PREFERRED SUPPLIER
1	X			D3943-041	GROUND HANDLING CRANK ASSEMBLY	
5	1	X		D3943-051	HANDLE ASSEMBLY	
6	1		X	D3943-053	CHAIN ASSEMBLY	
11		1		D3943-1	HANDLE	M/F HANDLE FROM DIS-ASSEMBLED ITEM 39
12	1			D3943-3	HANDLE EXTENSION	
13		1		D3943-5	PLATE	
14		2		D3943-7	STUD	
15			1	D3943-9	CHAIN	USE CHAIN SUPPLIED WITH ITEM 39
21	1			D2690-4	LANYARD	
22	1			D3585-1	SET SCREW	
23	1			D3949-041	REMOVE BEFORE FLIGHT FLAG	
24			1	D3954-5	CHAIN LUG	
25	1			D3954-7	ATCHET LUG	
26			1	D3954-9	GWT CHAIN PIN	
31	1			AN5-11A	BOLT	
32	1			AN960-516	WASHER	
33	1			MS21042L5	NUT	
39	1			8143919	LEVER CHAIN HOIST (POWER FIST)	PRINCESS AUTO / 4000 lbs CAPACITY
41	1			S-1475	SPRING	REID SUPPLY
42	1			3408A59	BALL PLUNGER	McMASTER CARR
43	1			HX-15	SOCKET HEAD CAP SCREW 1/4-20 UNC X 0.75 LG	HASKINS
44	1			HX-16	SOCKET HEAD CAP SCREW 1/4-20 UNC X 1.0 LG	HASKINS

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 66111
CY 11/02/07

RELEASED
2010-10-18
WJG

C	RMV FINISH -041 (ZN A8-2), ADD NEW FINISH -051/-053/-1/-3 (A8-3/-4/-5), ADD CALIBRATION (A8-2), (1) HX-16 WAS HX-15 (B3-1, C3-1), PAR 10-001	CP	10.01.26
B	SHT 1 PL, ITEM 31 WAS AN4-10A, ITEM 32 WAS AN960-416, ITEM 33 WAS MS21042-4, ITEM 43 WAS 0.75 LG. SHEETS 2 - 5 NOTES: FINISH FOR ALL COMPONENTS NOW YELLOW SPRAY PAINT.	AJS	09.10.15
A	NEW ISSUE	AJS	09.05.13
REV.	DESCRIPTION	BY	DATE
DESIGN	DSTOW / AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. REV. C D3943 SHEET 1 OF 5 TITLE SCALE GROSS WEIGHT TOW CRANK ASSY NTS COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR REPRODUCED OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	
DRAWN	4P		
CHECKED	13		
MFG. APPR.	10		
APPROVED	N/A		
DE APPR.	N/A		
DATE	10.01.26		

REMOVE AND RETAIN
RUBBER HAND GRIP



8143919 LEVER CHAIN HOIST
(SHOWN PRIOR TO MODIFICATION)
(CHAIN SHOWN SHORTENED FOR CLARITY)

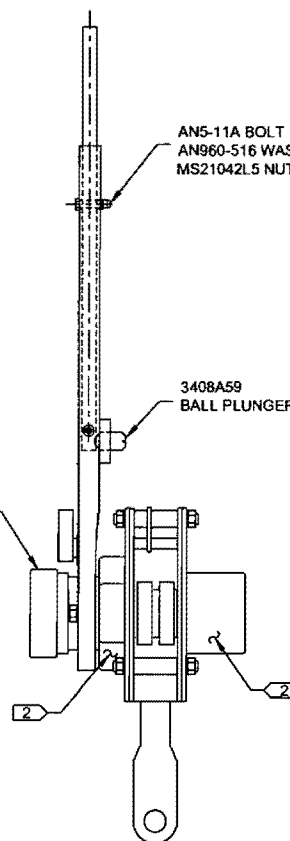
NOTES -041:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3943-041" USING FINE POINT PERMANENT INK MARKER
- 7) CALIBRATION TAG PER DART QSI 008 4.4 (ZN C1-2)

AN5-11A BOLT
AN960-516 WASHER
MS21042L5 NUT

3408A59
BALL PLUNGER

8143919
LEVER CHAIN HOIST



(CHAIN NOT SHOWN FOR CLARITY)

RE-INSTALL
RUBBER HAND-GRIP
HERE

D2690-4 LANYARD

D3949-041 FLAG

HX-16 S/H CAP SCREW

D3585-1 SET SCREW

RE-INSTALL PIN

D3954-7 RATCHET LUG

D3943-3
HANDLE EXTENSION

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WITHOUT NOTICE
WORK ORDER
NO. 66111



HX-15 S/H CAP SCREW
S-1475 SPRING

CALIBRATION TAG

D3943-053 CHAIN ASSY

(CHAIN SHOWN SHORTENED FOR CLARITY)

D3943-041 GROUND HANDLING CRANK ASSEMBLY

DESIGN	DSTOW / AJS	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3943	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.	N/A	GROSS WEIGHT TOW CRANK ASSY	NTS
DATE	10.01.26	COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRELIMINARY AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
R 2010-02-10

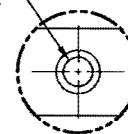
D3943-1 HANDLE

2 PL

9.75

2.00

0.41

Ø0.31
THRUØ0.12
THRUD3943-7 STUD
2 PLTHREAD 1/2-20 UNC-2B
2 PLTHREAD 1/2-20 UNC-2B
THRUVIEW A-A A5-3
(SCALE 2X) B5-3

2 PL

9.37

A B1-3

A B1-3

D3943-5 PLATE

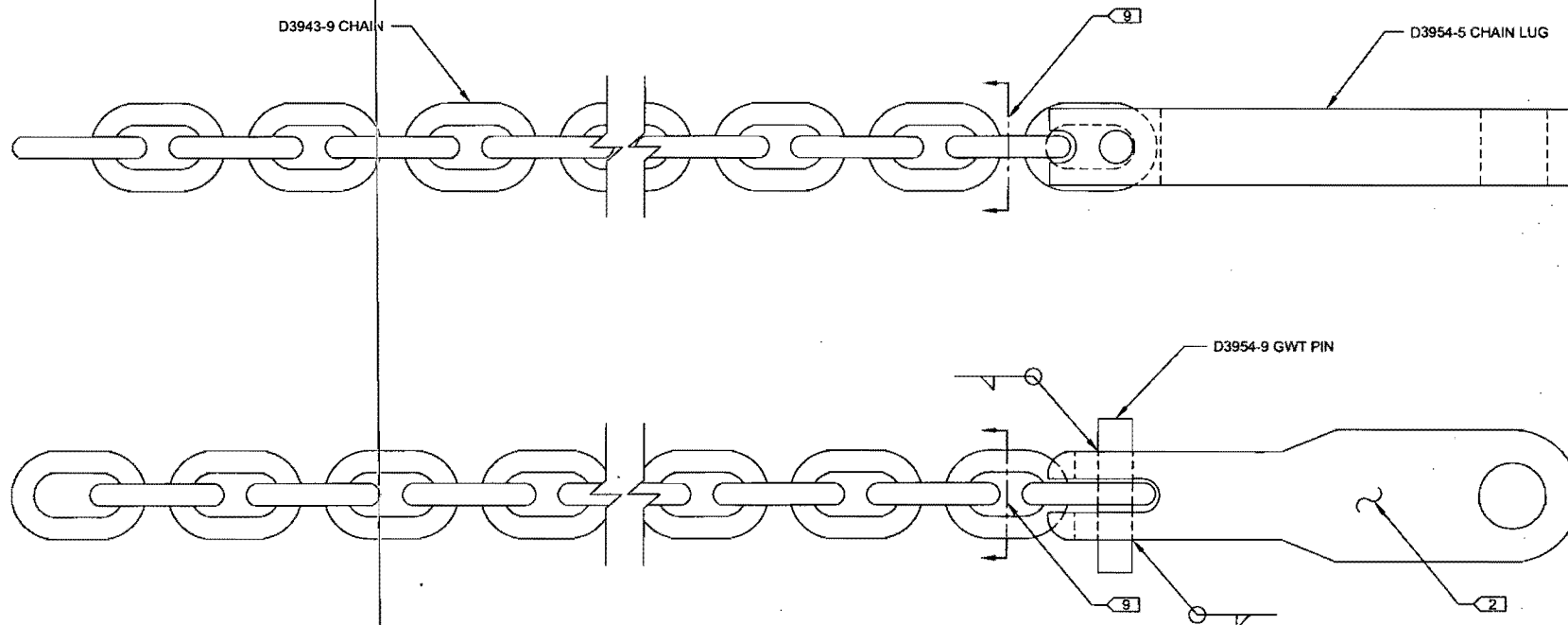
D3943-051 HANDLE ASSEMBLY

NOTES -051:

- 1) MATERIAL : N/A
- 2) FINISH: POWDER COAT HYBRID SAFETY YELLOW (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: X.XX DIMENSIONS +/- 0.06 ALL OTHERS PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) MASK ALL THREADS PRIOR TO POWDER COATING

RELEASED
2010-02-10
NH

DESIGN	DSTOW/AJS	DART AEROSPACE LTD	
DRAWN	97	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3943	SHEET 3 OF 5
APPROVED		TITLE	SCALE
DE APPR.	N/A	GROSS WEIGHT TOW CRANK ASSY	NTS
DATE	10.01.26	COPYRIGHT © 2009 BY DART AEROSPACE LTD	
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D3943-053 CHAIN ASSEMBLY

NOTES -053:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT HYBRID SAFETY YELLOW (4.3.5.12) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A
- 8) WELD PER QSI 004
- 9) MASK CHAIN FROM THIS POINT ON PRIOR TO POWDER COATING

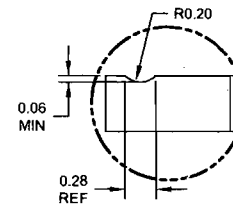
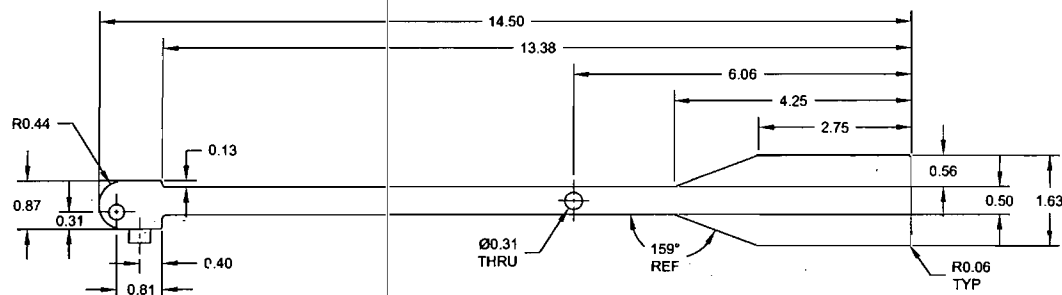
SHOP COPY
RETURN TO
ENGINEERING
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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 100111

DESIGN	DSTOW/AJS	DART AEROSPACE LTD	
DRAWN	42	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D3943	REV. C
MFG. APPR.		SHEET 4 OF 5	
APPROVED		TITLE	SCALE
DE APPR.	N/A	GROSS WEIGHT TOW CRANK ASSY	NTS
DATE	10.01.26	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

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2010-02-10
WJ

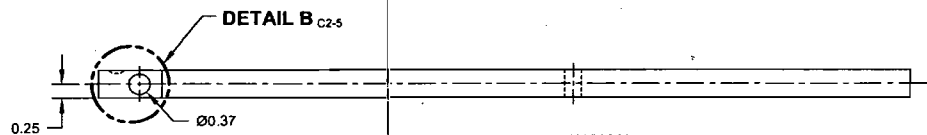
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D



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WITHOUT NOTICE
WORK ORDER
NO. 6611

C



D3943-3 HANDLE EXTENSION

B

NOTES -11/-13:

1) MATERIAL -3 & -5: MILD STEEL, SHEET

AISI 1010-1025 OR ASTM A36/A366/A1008
OR CSA G40-21, 38W/44W/50W/60W/70W
REF DART SPEC M1010-S

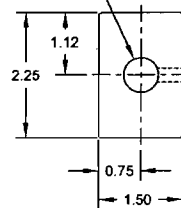
OR: MILD STEEL, BAR

AISI 1010-1025 OR ASTM A36/A366/A569/A570
OR CSA G40-21, 38W/44W/50W/60W/70W
REF DART SPEC M1010-B

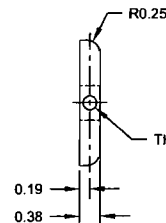
-7: MILD STEEL, ROUND BAR

AISI 1018-1025
PER MIL-S-7097
REF DART SPEC M1018-R

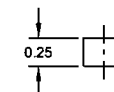
THREAD $\frac{1}{8}$ -11 UNC-2B



D3943-5 PLATE



Ø0.37 PILOT HOLE PER
SHOP REQUIREMENT



D3943-7 STUD
(SCALE 2X)

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2010-02-10

A

- 2) FINISH -3: POWDER COAT HYBRID SAFETY YELLOW (4.3.5.12) PER DART QSI 005 4.3
-5 & -7: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: NONE

DESIGN	DSTOW/AJS	DART AEROSPACE LTD	
DRAWN	97	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3943	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		GROSS WEIGHT TOW CRANK ASSY	NTS
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8 7 6 5 4 3 2 1

Princess Auto Ltd.

Ottawa

1111 Ages Drive

Ottawa, ON K1G6L3

Date 03/02/2011 Time 10:28 am

~~REG~~ ~~SALES~~ ~~ON~~ ~~CASHIER~~ ~~REG~~ ~~SALES~~ ~~ON~~ ~~CASHIER~~

10 12872 9306 1537975 16

SOLD TO:

TEAM MEMBER:

073126

THERESE D.

9306

DART AEROSPACE

PO #P013422

~~REG~~ ~~SALES~~ ~~ON~~ ~~CASHIER~~ ~~REG~~ ~~SALES~~ ~~ON~~ ~~CASHIER~~

B 8055139 6 72.95 269.94

JACK DROP LEG 5000# SW 29IN

01/25/11 #02A 2WK (168.00)

B 8143919 1 159.99 159.99

HOIST CHAIN 2 TON LEVER

B 8143919 1 159.99 159.99

HOIST CHAIN 2 TON LEVER

Subtotal 589.92

HST 13% R104304738 76.69

Total 666.61

A/R Account (666.61)

073126

Item Count: 8

CUSTOMER COPY

Electric, propane and kerosene heaters are
here to keep you working right through
winter



00016153797511034

INTERNAL CALIBRATION CERTIFICATE

Instrument #	Description	Serial #
D3943-041	Ground Handling Crank Assembly	B66111

Calibrated by	Date of calibration	Calibrated with	Due	Certificate #
ED	May 26th, 2011	ENG-07		
		25000lbs load cell		

New tool	Disposed	In Repair	On Hold	Being Calibrated
N/A	N/A	N/A	N/A	N/A

Employee	Department	Comments:
N/A	N/A	MUST BE CALIBRATED WITH IN 1 YEAR OF PURCHASE OR FIRST OPERATION

Spec.	Tolerance is +/-	Result	Pass/Fail
3500LBS	3500-3700LBS	3700lbs	PASS

Entered By:
Eric Downing QC Coordinator

